Indiana Department of Environmental Management



We make Indiana a cleaner, healthier place to live.

Frank O'Bannon Governor

May 21, 2003

P.O. Box 6015 Indianapolis, Indiana 46206-6015

100 North Senate Avenue

Lori F. Kaplan Commissioner RE:

EATON CORP 059-17353-00033

(317) 232-8603 (800) 451-6027 www.in.gov/idem

TO: Interested Parties / Applicant

FROM: Paul Dubenetzky

> Chief, Permits Branch Office of Air Quality

> > **Notice of Decision: Registration**

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 4-21.5-3-4 (d) this order is effective when it is served. When served by U.S. mail, the order is effective three

(3) calendar days from the mailing of this notice pursuant to IC 4-21.5-3-2(e).

If you wish to challenge this decision, IC 4-21.5-3-7 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, ISTA Building, 150 W. Market Street, Suite 618, Indianapolis, IN 46204, within (18) eighteen days of the mailing of this notice. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- the date on which the document is deposited with a private carrier, as shown by receipt (3) issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- identification of any persons represented by the person making the request; (3)
- the reasons, with particularity, for the request; (4)
- the issues, with particularity, proposed for consideration at any hearing; and (5)
- identification of the terms and conditions which, in the judgment of the person making the (6) request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

REGIS.wpd 8/21/02

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



We make Indiana a cleaner, healthier place to live.

Governor

Lori F. Kaplan Commissioner

6015

100 North Senate AvenueP. O. Box 6015Indianapolis, Indiana 46206-

(317) 232-8603 (800) 451-6027

www.state.in.us/idem

May 21, 2003

Mr. Dennis Fair Eaton Corporation 501 West New Road Greenfield, Indiana 46140

Re: Regis

Registered Construction and Operation Status,

059-17353-00033

Dear Mr. Fair:

The application from Eaton Corporation, received on March 14, 2003, has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-5.1, it has been determined that the following trucking and off-road vehicle transmissions assembly plant, to be located at 501 West New Road, Greenfield, Indiana 46140 is classified as registered:

- (a) One (1) spray booth coating medium duty metal transmissions (identified as (s-medium) EU 01) with a maximum capacity of 5.8 gallons of coating per day, controlled by dry filters and exhausting to stacks (s-medium) ID. This facility was constructed in 1997.
- (b) Natural gas fired combustion units consisting of three (3) air handlers, one (1) furnace, three (3) rooftop heating units, with a combined heat input capacity of 12.30 MMBtu per hour. These units were installed in 1997.

The source plans to construct the following emission units and pollution control devices:

(c) One (1) spray booth coating used-heavy duty metal transmissions (identified as (s-reman) EU 02) with a maximum capacity of 21 gallons of coating per day, controlled by dry filters and exhausting to stacks ID (s-reman). This facility will be constructed in 2003.

The following conditions shall be applicable:

- (a) Pursuant to 326 IAC 5-1-2 (Opacity Limitations) except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following:
 - (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of 15 minutes (60 readings) in a 6-hour period as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.
- (b) Pursuant to 326 IAC 6-3-2(d) (Particulate Emission Limitations for Manufacturing Processes),
 - (1) Particulate from the two (2) spray booths shall be controlled by a dry particulate filters, and the Permittee shall operate the control device in accordance with manufacturer's specifications.



- (2) If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:
 - (A) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
 - (B) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
- (3) If overspray is visibly detected, the Permittee shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

Pursuant to 326 IAC 6-3-2(d), the dry filters shall be in operation at all times the two (2) spray booths are in operation, in order to comply with this limit.

- (c) Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations),
 - (1) The volatile organic compound (VOC) content of coating applied in the two (2) spray booths shall be limited to 3.5 pounds of VOCs per gallon of coating, excluding water, as delivered to the applicator for any calender day, for forced warm air (less than 90EC or 194EF) dried coatings.
 - (2) Pursuant to 326 IAC 8-2-9 (f), all solvents sprayed from the application equipment of two (2) spray booths during cleanup or color changes shall be directed into containers. Said containers shall be closed as soon as the solvent spraying is complete. In addition, all waste solvent shall be disposed of in such a manner that minimizes evaporation.
 - (3) Compliance with the VOC content shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from manufacturer the copies of the "as supplied" and "as applied" VOC data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.
 - (4) The Permittee shall maintain records in accordance with (A) through (D) below. Records shall be maintained for the VOC content of each coating material and solvent used less water.

This registration is the first air approval issued to this source. The source may operate according to 326 IAC 2-5.5.

An authorized individual shall provide an annual notice to the Office of Air Quality that the source is in operation and in compliance with this registration pursuant to 326 IAC 2-5.5-4(a)(3). The annual notice shall be submitted to:

Compliance Branch
Office of Air Quality
100 North Senate Avenue
P.O. Box 6015
Indianapolis, IN 46206-6015

Eaton Corporation Page 3 of 4
Greenfield, Indiana R059-17353-00033

An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

Pursuant to Contract No. A305-0-00-36, IDEM, OAQ has assigned the processing of this application to Eastern Research Group, Inc., (ERG). Therefore, questions should be directed to Sanober Durrani, ERG, 1600 Perimeter Park Drive, Morrisville, North Carolina 27560, or call (919) 468-7810 to speak directly to Ms. Durrani. Questions may also be directed to Duane Van Laningham at IDEM, OAQ, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, or call (800) 451-6027, press 0 and ask for Duane Van Laningham, or extension 3-6878, or dial (317) 233-6878.

Sincerely,

Original signed by
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

ERG/SD

cc: File - Hancock County

Hancock County Health Department Air Compliance - D.J. Knotts Southwest Regional Office

Southwest Regional Office Permit Tracking - Sara Cloe

Technical Support and Modeling - Michele Boner

Compliance Branch - Karen Nowak

Office of Enforcement

Registration

This form should be used to comply with the notification requirements under 326 IAC 2-5.1-2(f)(3).

Company Name:	Eaton Corporation
Address:	501 West New Road
City:	Greenfield, Indiana 46140
Authorized individuals	John D. Ritter
Phone #:	(317) 467-2300
Registration #: 059-173	353-00033

I hereby certify that Eaton Corporation is still in operation and is in compliance with the requirements of Registration 059-17353-00033.

Name (typed):	
Title:	
Signature:	
Date:	

May 21, 2003

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Registration

Source Background and Description

Source Name: Eaton Corporation

Source Location: 501 West New Road, Greenfield, Indiana 46140

County: Hancock SIC Code: 3714

Operation Permit No.: 059-17353-00033

Permit Reviewer: ERG/SD

The Office of Air Quality (OAQ) has reviewed an application from Eaton Corporation relating to the construction and operation of trucking and off-road vehicle transmissions assembly plant.

Exempt Emission Units and Pollution Control Equipment

Note: The construction of one (1) spray booth coating medium duty metal transmissions (identified as EU01) and natural gas fired combustion units were exempt from permitting. Therefore, the source did not submit a construction and operating permit application.

The source consists of the following exempt facilities/units:

- (a) One (1) spray booth coating medium duty metal transmissions (identified as EU 01) with a maximum capacity of 5.8 gallons of coating per day, controlled by dry filters and exhausting to stack ID (s-medium). This facility was constructed in 1997.
- (b) Natural gas fired combustion units consisting of three (3) air handlers, one (1) furnace, three (3) rooftop heating units, with a combined heat input capacity of 12.30 MMBtu per hour. These units were installed in 1997.

New Emission Units and Pollution Control Equipment

The source plans to construct the following emission units and pollution control devices:

(c) One (1) spray booth coating used-heavy duty metal transmissions (identified as EU 02) with a maximum capacity of 21 gallons of coating per day, controlled by dry filters and exhausting to stacks ID (s-reman). This facility will be constructed in 2003.

Existing Approvals

No previous approvals were issued to this source.

Enforcement Issue

Page 2 of 6 059-17353-00033

Eaton Corporation Greenfield, Indiana Permit Reviewer: ERG/SD

There are no enforcement actions pending.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
S-Reman	Paint Booth	39	2	6755	Ambient
S-Medium	Paint Booth	25	2	6755	Ambient

Recommendation

The staff recommends to the Commissioner that the construction and operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

A complete application for the purposes of this review was received on March 14, 2003.

Emission Calculations

See Appendix A of this document for detailed emissions calculations (Appendix A, pages 1 through 5).

Potential To Emit of Source Before Controls

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, the department, or the appropriate local air pollution control agency." (The emissions below are the potential to emit from the entire source including the new paint booth which has not yet been constructed.)

Pollutant	Potential To Emit (tons/year)
PM	9.4
PM-10	9.4
SO ₂	0.03
VOC	8.2
СО	4.5
NO _x	5.4

HAP's	Potential To Emit (tons/year)
Single HAP (Glycol Ether)	2.67
Combination of HAPs	3.05

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of criteria pollutants is less than 100 tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of criteria pollutants is less than 25 tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-6.1.

Page 3 of 6 059-17353-00033

Eaton Corporation Greenfield, Indiana Permit Reviewer: ERG/SD

- (c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM and PM10 is greater than levels listed in 326 IAC 2-1.1-3(d)(1), therefore the source is subject to the provisions of 326 IAC 2-5.5.1. A registration will be issued.
- (d) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.
- (e) Fugitive Emissions Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

County Attainment Status

The source is located in Hancock County.

Pollutant	Status
PM-10	Attainment
SO ₂	Attainment
NO_2	Attainment
Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Hancock County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) Hancock County has been classified as attainment or unclassifiable for all criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) Fugitive Emissions

Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2, or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Source Status

Existing Source PSD, Part 70 or FESOP Definition (emissions after controls, based on 8,760 hours of operation per year at rated capacity and/ or as otherwise limited):

Pollutant	Potential To Emit Existing Units (ton/year)	Potential To Emit Modification (ton/year)
PM	3.11	6.34
PM10	3.11	6.34

Eaton Corporation Greenfield, Indiana Permit Reviewer: ERG/SD

Pollutant	Potential To Emit Existing Units (ton/year)	Potential To Emit Modification (ton/year)
SO_2	0.03	0.0
VOC	0.59	7.59
CO	4.50	0
NO _x	4.50	0.0

HAPs	Potential To Emit Existing Units	Potential To Emit Modification (tons/year)
Single HAP (Glycol Ether)	0.15	2.52
Combination HAPs	0.15	2.90

- (a) This new source is not a major stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not in one of the 28 listed source categories.
- (b) These emissions were based on potential to emit calculations as shown in Appendix A.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This new source, is not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

- (a) each criteria pollutant is less than 100 tons per year,
- (b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
- (c) any combination of HAPs is less than 25 tons/year.

This status is based on the potential to emit calculations (see Appendix A).

Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source.
- (b) This source is not subject to National Emission Standard for Hazardous Air Pollutant (NESHAPs), 326 IAC 14 (40 CFR 63, Subpart MMMM - Miscellaneous Metal Parts and Products because this source uses less than 250 gallons of coating per year and is not a major source of Hazardous Air Pollutants (HAPs).

There are no other National Emission Standard for Hazardous Air Pollutant (NESHAPs) (326 IAC 14 and 40 CFR 63) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

This source was a minor source when it was built in 1997 and is not in one (1) of the twenty-eight (28) listed source categories. The potential to emit each criteria pollutant from the entire source is less than 250 tons per year. Therefore, the requirements of 326 IAC 2-2 are not applicable.

Eaton Corporation Page 5 of 6
Greenfield, Indiana 059-17353-00033

Permit Reviewer: ERG/SD

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAPs))

Although constructed after July 27, 1997, the operation of two (2) spray booths will emit less than ten (10) tons per year of a single HAP or twenty-five (25) tons per year of any combination of HAPs. Therefore the source is not subject to the provisions of 326 IAC 2-4.1.

326 IAC 2-6 (Emission Reporting)

This source is located in Hancock and the potential to emit VOC is less than one hundred (100) tons per year. Therefore, 326 IAC 2-6 does not apply.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

State Rule Applicability - Two (2) Spray Booths

326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)

The two (2) spray booths are subject to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) because these facilities use more than five (5) gallons of coating per day.

Pursuant to 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)

- (a) Particulate from the two (2) spray booths shall be controlled by a dry particulate filters, and the Permittee shall operate the control device in accordance with manufacturer's specifications.
- (b) If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:
 - (1) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
 - (2) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
- (c) If overspray is visibly detected, the Permittee shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

Pursuant to 326 IAC 6-3-2(d), the dry filters shall be in operation at all times the two (2) spray booths are in operation, in order to comply with this limit.

326 IAC 8-2-9 (Miscellaneous Metal Coating)

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of coating delivered to the applicator at the two spray booths shall be

Eaton Corporation Page 6 of 6 Greenfield, Indiana 059-17353-00033

Permit Reviewer: ERG/SD

limited to 3.5 pounds of VOCs per gallon of coating less water, for forced warm air dried coatings when painting metal parts.

Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

Based on the MSDS submitted by the source and calculations made, the spray booth is in compliance with this requirement.

Conclusion

The construction and operation of this trucking and off-road vehicle transmissions assembly plant shall be subject to the conditions of the attached proposed Registration 059-17353-00033.

Appendix A: Emission Calculations Natural Gas Combustion Only Furnaces, Rooftop Heating Units, Air Handlers

Company Name: Eaton Corporation

Address: 501 West New Road, Greenfield, Indiana 46140

Registration: 059-00033 Plt ID: 059-17253 Reviewer: ERG/SD

Date: April 14, 2003

Total Heat Input Capacity Potential Throughput

MMBtu/hr MMCF/yr

12.3 (5 units total) 107.7

Pollutant

		1 Ollatarit				
	PM*	PM10*	SO2	NO_x	VOC	CO
Emission Factor in lb/MMCF	7.6	7.6	0.6	100.0	5.5	84.0
				**see below		
Potential Emission in tons/yr	0.41	0.41	0.03	5.39	0.30	4.53

^{*}PM and PM10 emission factors are filterable and condensible PM and PM10 combined.

Methodology

All Emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

 $Emission\ Factors\ from\ AP-42,\ Chapter\ 1.4,\ Tables\ 1.4-1,\ 1.4-2,\ and\ 1.4-3,\ SCC\ \#1-02-006-02,\ 1-01-006-02,\ 1-03-006-02,\ and\ 1-03-006-03$

(AP-42 Supplement D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

See next page for HAPs emissions calculations.

^{**}Emission Factors for NO_x: Uncontrolled = 100, Low NO_x Burner = 50, Low NO_x Burners/Flue gas recirculation = 32

Natural Gas Combustion Only Heater, Makeup-Air Unit, Rooftop Unit, Air Handler

Company Name: Eaton Corporation

Address: 501 West New Road, Greenfield, Indiana 46140

Registration: 059-00033 Plt ID: 059-17253 Reviewer: ERG/SD

Date: April 14, 2003

HAPs - Organics

Emission Factor in lb/MMCF	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	1.131E-04	6.465E-05	4.041E-03	9.697E-02	1.832E-04

HAPs - Metals

Emission Factor in lb/MMCF	Lead	Cadmuim	Chromium	Manganese	Nickel
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	2.694E-05	5.926E-05	7.542E-05	2.047E-05	1.131E-04

Methodology is the same as previous page.

The five highest organic and metal HAPs emission factors are provided above. Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Page 3 of 5 TSD App A

Appendix A: Emissions Calculations Medium and Heavy Duty Transmissions Spray Booths

Company Name: Eaton Corporation

Address: 501 West New Road, Greenfield, Indiana 46140

 Registration:
 059-00033

 Plt ID:
 059-17253

 Reviewer:
 ERG/SD

 Date:
 April 14, 2003

Units	Material	Density (Lb/Gal)	Weight % Volatile (H20 & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non- Volatiles (solids)	Max Usage (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water		PTE VOC (lbs/hr)	PTE VOC (lbs/day)	PTE VOC (tonsyear)	PTE PM/PM10 (ton/year)	**Transfer Efficiency	PTE PM/PM10 (lbs/hr)
S-Reman	Heavy Gray	9.48	63%	37%	26.0%	0.0%	37%	0.11	6.50	2.46	2.46	1.68	40.35	7.36	4.2	60%	0.96
S-Reman	Heavy Black	10.62	40%	37%	2.6%	0.0%	60%	0.03	6.50	0.28	0.28	0.05	1.27	0.23	2.1	60%	0.49
S-Medium	Medium Black	10.62	40%	37%	2.6%	0.0%	60%	0.10	2.50	0.28	0.28	0.07	1.60	0.29	2.7	60%	0.62

Total State Potential Emissions 1.8 43 8 9.0

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)

Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)

PTE VOC (pounds/hour) = Pounds of VOC/Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)

PTE VOC (pounds/day) = Pounds of VOC/Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)

PTE VOC (tons/year) = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)

PTE PM/PM10 (tons/year) = Max. (units/hour) * Gal of Mat (gal/unit) * Density (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)

PTE PM/PM10 (lbs/hour) = Max. (units/hour) * Gal of Mat (gal/unit) * Density (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency)

^{**} Coating applied using airless and air atomization guns

Appendix A: Emissions Calculations Medium and Heavy Duty Transmissions Spray Booths

Company Name: Eaton Corporation

Address: 501 West New Road, Greenfield, Indiana 46140

 Registration
 059-00033

 Plt ID:
 059-17253

 Reviewer:
 ERG/SD

 Date:
 April 14, 2003

Units	Material	Density	Max. Usage	Maximum	Gylcol Ether Weight % Emissions Weight %			n-Butyl Alcohol Emissions
		(lb/gal)	(gal/unit)	(unit/hour)	Glycol Ether	(ton/year)	n-Butyl Alcohol	(ton/year)
S-Reman	Heavy Gray	9.48	0.11	6.50	8.49%	2.41	1.33%	0.38
S-Reman	Heavy Black	10.62	0.03	6.50	1.30%	0.1		
S-Medium	Medium Black	10.62	0.10	2.50	1.30%	0.1		

Total State Potential Emissions		2.67	0.38		
	Individual HAP =	2.67			
	Combined HAPs =	3.05			

METHODOLOGY

PTE HAPs (tons/yr) = Density (lb/gal) * Gal of Material (gal/unit) * Maximum (unit/hr) * Weight % HAP * 8760 hrs/yr * 1 ton/2000 lbs

Appendix A: Emission Calculations Summary Emissions

Company Name: Eaton Corporation

Address: 501 West New Road, Greenfield, Indiana 46140

Registration 059-00033 Plt ID: 059-17253 Reviewer: ERG/SD Date: April 14, 2003

POTENTIAL TO EMIT BEFORE CONTROLS IN TONS PER YEAR

SOURCE	PM	PM10	VOC	NO _X	SO ₂	CO	Single HAP	Combined HAP
Combustion Units	0.41	0.41	0.30	5.4	0.03	4.53		
Two Spray Booths	9.0	9.0	7.89				2.67	3.05
	9.4	9.4	8.2	5.4	0.03	4.5	2.7	3.0